

Translation

PATENT COOPERATION TREATY

PCT/JP2003/008539



PCT

10 3 APR 2005 520106

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FCP-1117	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/008539	International filing date (day/month/year) 04 July 2003 (04.07.2003)	Priority date (day/month/year) 04 July 2002 (04.07.2002)
International Patent Classification (IPC) or national classification and IPC G03F 7/038, 7/12		
Applicant ICHIMURA, Kunihiro		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

3. This report is also accompanied by ANNEXES, comprising:

a. ☒ (sent to the applicant and to the International Bureau) a total of 6 sheets, as follows:

☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).

☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.

b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

☒ Box No. I Basis of the report

☐ Box No. II Priority

☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 04 February 2004 (04.02.2004)	Date of completion of this report 01 October 2004 (01.10.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/008539

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages \_\_\_\_\_ 1-4, 7-18, 21-33 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ 5, 6, 19, 20 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 21 September 2004 (21.09.2004)
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages \_\_\_\_\_ 2, 14 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ 3-6, 8-13 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 21 September 2004 (21.09.2004)
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ the drawings:
- pages \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. \_\_\_\_\_ 1, 7 \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International Application No.

PCT/JP03/08539

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	2-6, 8-14	YES
	Claims		NO
Inventive step (IS)	Claims	2-6, 8-14	YES
	Claims		NO
Industrial applicability (IA)	Claims	2-6, 8-14	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP, 57-84451, A (General Electric Co.), 27 July, 1982 (27.07.82), & US, 4341859, A1

Document 2: JP, 9-319079, A (Toyo Gosei Kogyo Co., Ltd.), 12 December, 1997 (12.12.97)

Document 3: JP, 9-203806, A (Mitsubishi Chemical Corp.), 5 August, 1997 (05.08.97)

Document 4: JP, 3-144650, A (Shipley Co. Inc.), 20 June, 1991 (20.06.91), & US, 5212046, A1, & EP, 423446, A1

Document 5: JP, 7-146549, A (Director General of Agency of Industrial Science and Technology), 6 June, 1995 (06.06.95)

Document 6: JP, 62-250440, A (Director General of Agency of Industrial Science and Technology), 31 October, 1987 (31.10.87)

Document 7: JP, 9-185173, A (Goo Chemical Co., Ltd.), 15 July, 1997 (15.07.97)

### Claims 2-6 and 8-14

Using a dispersion having "an acid generator" and "a sensitizer" dispersed as fine powders in it is neither described in any of the documents cited in the ISR, their families and newly added documents 1-7 nor obvious to a person skilled in the art.

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/08539

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> G03F7/038

10 Rec'd

03 APR 2005

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> G03F7/004-7/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US 4341859 A1 (General Electric Co.), 27 July, 1982 (27.07.82), Full text & JP 57-84451 A	1, 4, 8, 12, 14 2, 3, 5-7, 9-11, 13
X Y	JP 9-319079 A (Toyo Gosei Kogyo Co., Ltd.), 12 December, 1997 (12.12.97), Full text; all drawings (Family: none)	1, 2, 4-6, 8 3, 7, 9-14
X Y	JP 9-203806 A (Mitsubishi Chemical Corp.), 05 August, 1997 (05.08.97), Full text (Family: none)	1, 2, 4, 5 3, 6-14

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
02 December, 2003 (02.12.03)Date of mailing of the international search report  
09 December, 2003 (09.12.03)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP03/08539

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	EP 423446 A1 (SHIPLEY CO. INC.), 03 August, 1990 (03.08.90), Full text; all drawings & JP 3-144650 A & US 5212046 A1	1, 2, 4, 12, 14 3, 5-11, 13
Y A	JP 7-146549 A (Director General, Agency of Industrial Science and Technology), 06 June, 1995 (06.06.95), Full text (Family: none)	3, 8-14 1, 2, 4-7

## A. 発明の属する分野の分類 (国際特許分類 (IPC))

Int. Cl<sup>7</sup> G03F7/038

## B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))

Int. Cl<sup>7</sup> G03F7/004-7/18

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報	1922-1996年
日本国公開実用新案公報	1971-2003年
日本国実用新案登録公報	1996-2003年
日本国登録実用新案公報	1994-2003年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

## C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X Y	US 4341859 A1 (General Electric Company) 1982. 07. 27, 全文, & JP 57-84451 A	1, 4, 8, 12, 14 2, 3, 5-7, 9-11, 13
X Y	JP 9-319079 A (東洋合成工業株式会社) 1997. 12. 12, 全文, 全図, (ファミリーなし)	1, 2, 4-6, 8 3, 7, 9-14
X Y	JP 9-203806 A (三菱化学株式会社) 1997. 08. 05, 全文, (ファミリーなし)	1, 2, 4, 5 3, 6-14

☒ C欄の続きにも文献が列挙されている。☐ パテントファミリーに関する別紙を参照。

## \* 引用文献のカテゴリー

「A」 特に関連のある文献ではなく、一般的技術水準を示すもの  
「E」 国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの  
「L」 優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す)  
「O」 口頭による開示、使用、展示等に言及する文献  
「P」 国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献

「T」 国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの  
「X」 特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの  
「Y」 特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの  
「&」 同一パテントファミリー文献

国際調査を完了した日

02. 12. 03

国際調査報告の発送日

09.12.03

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)  
郵便番号 100-8915  
東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)

前田 佳与子



2H

9019

電話番号 03-3581-1101 内線 3231

## C (続き). 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X Y	EP 4 2 3 4 4 6 A 1 (SHIPLEY COMPANY INC.) 1990. 08. 03, 全文, 全図, & JP 3-144650 A & US 5212046 A1	1, 2, 4, 12, 14 3, 5-11, 13
Y A	JP 7-146549 A (工業技術院長) 1995. 06. 06, 全文, (ファミリーなし)	3, 8-14 1, 2, 4-7